

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: MxQuant-NPH ISTD

UFI: V3C0-P01P-900N-5R44

1.2 Relevant identified uses of the substance or mixture and uses advised against

Application of the substance / the mixture

Mixture of stable isotope labelled standards to improve the quantification of LC-MS/MS measurements.
For research use only. Not for use in diagnostic procedures.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

biocrates life sciences ag

Eduard-Bodem-Gasse 8

A-6020 Innsbruck

T: +43 512 57 98 23

F: +43 512 57 98 23 329

Further information obtainable from: Email: office@biocrates.com

1.4 Emergency telephone number:

+43 512 57 98 23

Available during office hours:

Mo-Fr: 9 a.m. - 5 p.m.

Call the national emergency number!

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Additional information: For the wording of the hazard categories, see section 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS05



GHS08

Signal word Danger

(Contd. on page 2)

Trade name: MxQuant-NPH ISTD

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Hazard-determining components of labelling:

N-(3-Dimethylaminopropyl)-N'-ethyl-carbodiimid

N-Methyl-D-Aspartic Acid, N-Methyl-D-asparaginsäure -13C-NPH derivatized

Hazard statements

H314 Causes severe skin burns and eye damage.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P260 Do not breathe dust.

P280 Wear protective gloves / eye protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

79.2 % of the mixture consists of component(s) of unknown toxicity.

Contains 80.7 % of components with unknown hazards to the aquatic environment.

2.3 Other hazards

The product contains not fully tested substances and must be used with the required caution.

Results of PBT and vPvB assessment

PBT: No data available.

vPvB: No data available.

Determination of endocrine-disrupting properties

CAS: 69-72-7 Salicylic acid -13C-NPH derivatized

List II; III







SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:












[% (w/w)]

CAS: 1892-57-5 EINECS: 217-579-2	N-(3-Dimethylaminopropyl)-N'-ethyl-carbodiimid  Skin Corr. 1B, H314; Eye Dam. 1, H318	25 - < 50%
CAS: 771-50-6 EINECS: 212-231-6	Indole-3-carboxylic acid -13C-NPH derivatized  Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	> 1 – ≤ 2.5%
CAS: 585-84-2 EINECS: 209-564-4	cis-Aconitic acid -13C-NPH derivatized  Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	1 - < 2.5%
CAS: 6384-92-5	N-Methyl-D-Aspartic Acid, N-Methyl-D-asparaginsäure -13C-NPH derivatized  STOT RE 1, H372  Aquatic Acute 1, H400  Eye Irrit. 2, H319	1 - < 2.5%

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<p>CAS: 79-09-4 EINECS: 201-176-3 Index number: 607-089-00-0 RTECS: UE 5950000</p>	<p>Propionic acid -13C-NPH derivatized</p> <p> Flam. Liq. 3, H226  Skin Corr. 1B, H314  STOT SE 3, H335 Specific concentration limits: Skin Corr. 1B; H314: $C \geq 25\%$ Skin Irrit. 2; H315: $10\% \leq C < 25\%$ Eye Irrit. 2; H319: $10\% \leq C < 25\%$ STOT SE 3; H335: $C \geq 10\%$</p>	<p>< 0.5%</p>
<p>CAS: 69-72-7 EINECS: 200-712-3 Index number: 607-732-00-5</p>	<p>Salicylic acid -13C-NPH derivatized</p> <p> Repr. 2, H361d  Eye Dam. 1, H318  Acute Tox. 4, H302</p>	<p>< 0.5%</p>
<p>CAS: 64-19-7 EINECS: 200-580-7 Index number: 607-002-00-6 RTECS: AF 1225000</p>	<p>Acetic acid -13C-NPH derivatized</p> <p> Flam. Liq. 3, H226  Skin Corr. 1A, H314 Specific concentration limits: Skin Corr. 1A; H314: $C \geq 90\%$ Skin Corr. 1B; H314: $25\% \leq C < 90\%$ Skin Irrit. 2; H315: $10\% \leq C < 25\%$ Eye Irrit. 2; H319: $10\% \leq C < 25\%$</p>	<p>< 0.5%</p>
<p>CAS: 109-52-4 EINECS: 203-677-2 Index number: 607-143-00-3 RTECS: YV 6100000</p>	<p>Valeric acid -13C-NPH derivatized</p> <p> Acute Tox. 2, H330  Skin Corr. 1B, H314  Acute Tox. 4, H302 Aquatic Chronic 3, H412</p>	<p>< 0.5%</p>

Additional information:

For the wording of the listed hazard phrases refer to section 16.

The CAS numbers refer in part to the unlabelled substances.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

In case of discomfort or doubt, seek medical advice.

If unconscious, use a stable lateral position and do not administer anything through mouth.

Immediately remove any clothing soiled by the product.

After inhalation:

Remove person to fresh air and keep comfortable for breathing.

Seek medical treatment in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

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Trade name: MxQuant-NPH ISTD

(Contd. of page 3)

Seek medical treatment.

After eye contact:

Rinse opened eye for several minutes under running water.

Remove contact lenses, if present and easy to do. Continue rinsing.

Consult an ophthalmologist or eye clinic immediately.

After swallowing:

Do NOT induce vomiting.

Rinse mouth.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Depending on the condition of the patients, the doctor must assess the symptoms and the overall general condition.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Combustible.

Dust can form explosive mixtures with air.

Explosive mixtures with air are possible when heated.

During heating or in case of fire poisonous gases are produced.

5.3 Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information

Cool endangered receptacles with water spray.

Do not inhale explosion gases or combustion gases.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Restricted access to the affected area until cleaning work is completed.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Avoid contact with skin and eyes.

Do not breathe dust.

Keep away from ignition sources.

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

(Contd. on page 5)

Trade name: MxQuant-NPH ISTD

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Dispose of the material collected according to regulations.
Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
Keep receptacles tightly sealed.
Avoid contact with skin and eyes.
Prevent formation of dust.
Take off immediately all contaminated clothing and wash it before reuse.
Avoid breathing dust.
Eye wash bottles and emergency showers should be provided in the immediate area near the workplace.
Use personal protective equipment as required.

Information about fire - and explosion protection:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store in a dry, cool, well-ventilated area.
Store in accordance with local/regional/national/international regulations.

Information about storage in one common storage facility: Store away from incompatible materials.

Further information about storage conditions:

Keep container tightly sealed.
Protect from heat and direct sunlight.

Recommended storage temperature: room temperature

Storage class: 8 A

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The following occupational exposure limits are based on unlabelled substances.

CAS: 79-09-4 Propionic acid -13C-NPH derivatized

IOELV (EU)	Short-term value: 62 mg/m ³ , 20 ppm Long-term value: 31 mg/m ³ , 10 ppm
MAK (Austria)	Short-term value: 62 mg/m ³ , 20 ppm Long-term value: 31 mg/m ³ , 10 ppm

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Trade name: MxQuant-NPH ISTD

(Contd. of page 5)

AGW (Germany)	Long-term value: 31 mg/m ³ , 10 ppm 2(I);EU, DFG, Y
LEP (Spain)	Short-term value: 62 mg/m ³ , 20 ppm Long-term value: 31 mg/m ³ , 10 ppm VLI
VLEP (France)	Short-term value: 62 mg/m ³ , 20 ppm Long-term value: 31 mg/m ³ , 10 ppm
WEL (Great Britain)	Short-term value: 46 mg/m ³ , 15 ppm Long-term value: 31 mg/m ³ , 10 ppm
TWA (Italy)	Long-term value: 30 mg/m ³ , 10 ppm
VL (Italy)	Short-term value: 62 mg/m ³ , 20 ppm Long-term value: 31 mg/m ³ , 10 ppm
WGW (Netherland)	Short-term value: 62 mg/m ³ , 20 ppm Long-term value: 31 mg/m ³ , 10 ppm
CAS: 64-19-7 Acetic acid -13C-NPH derivatized	
IOELV (EU)	Short-term value: 50 mg/m ³ , 20 ppm Long-term value: 25 mg/m ³ , 10 ppm
MAK (Austria)	Short-term value: 50 mg/m ³ , 20 ppm Long-term value: 25 mg/m ³ , 10 ppm
AGW (Germany)	Long-term value: 25 mg/m ³ , 10 ppm 2(I);DFG, EU, Y
LEP (Spain)	Short-term value: 50 mg/m ³ , 20 ppm Long-term value: 25 mg/m ³ , 10 ppm VLI
VLEP (France)	Short-term value: 50 mg/m ³ , 20 ppm Long-term value: 25 mg/m ³ , 10 ppm
WEL (Great Britain)	Short-term value: 50 mg/m ³ , 20 ppm Long-term value: 25 mg/m ³ , 10 ppm
TWA (Italy)	Short-term value: 37 mg/m ³ , 15 ppm Long-term value: 25 mg/m ³ , 10 ppm
VL (Italy)	Short-term value: 50 mg/m ³ , 20 ppm Long-term value: 25 mg/m ³ , 10 ppm
WGW (Netherland)	Short-term value: 50 mg/m ³ , 20 ppm Long-term value: 25 mg/m ³ , 10 ppm
CAS: 693-23-2 Dodecanedioic acid -13C-NPH derivatized	
MAK (Germany)	vgl. Abschn. IIb und Xc
CAS: 112-80-1 Oleic Acid (9c) -13C-NPH derivatized	
MAK (Germany)	vgl. Abschn. IIb und Xc

Regulatory information

IOELV (EU): (EU) 2019/1831

MAK (Austria): GKV 2021, 330. Verordnung, 02.12.2024, Teil 2

AGW (Germany): TRGS 900

LEP (Spain): Límites de exposición profesional para agentes químicos

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Trade name: MxQuant-NPH ISTD

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VLEP (France): ED 1487 26.04.2024

WEL (Great Britain): EH40/2020

TWA (Italy): Valori Limite di Soglia

VL (Italy): D.lgs. n. 135/2024, Allegato A

WGW (Netherland): Grenswaarden gezondheidsschadelijke stoffen

MAK (Germany): MAK- und BAT-Liste

DNELs No data available.

PNECs No data available.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Do not eat, drink, smoke or sniff while working.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Ensure good ventilation/exhaustion at the workplace.

Do not breathe dust.

Take off immediately all contaminated clothing and wash it before reuse.

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand protection



Protective gloves

EN 374

The glove material has to be impermeable and resistant to the product/ the substance/ the mixture.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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Eye/face protection



Tightly sealed goggles

EN 166

Body protection:

Protective work clothing

Select type and quality of protection clothes depending on concentration and quantity at the workplace.

Environmental exposure controls Do not allow to enter sewers/ surface or ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state

Solid

Colour:

Light yellow

Odour:

Characteristic

Odour threshold:

No information available.

Melting point/freezing point:

No information available.

Boiling point or initial boiling point and boiling range

Flammability

combustible

Lower and upper explosion limit

Lower:

No information available.

Upper:

No information available.

Flash point:

Not applicable.

Decomposition temperature:

No information available.

pH

Not applicable.

Viscosity:

Kinematic viscosity

Not applicable.

Dynamic:

Not applicable.

Solubility

water:

No information available.

Partition coefficient n-octanol/water (log value)

64-19-7	Acetic acid -13C-NPH derivatized	-0,17 log Kow
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Vapour pressure:

Not applicable.

Density and/or relative density

Density:

No information available.

Vapour density

No information available.

Particle characteristics

See section 3.

(Contd. on page 9)

Trade name: MxQuant-NPH ISTD

(Contd. of page 8)

9.2 Other information

Appearance:

Form: Solid

Important information on protection of health and environment, and on safety.

Ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Change in condition

Oxidising properties No information available.

Evaporation rate No information available.

Information with regard to physical hazard classes

Explosives void

Flammable gases void

Aerosols void

Oxidising gases void

Gases under pressure void

Flammable liquids void

Flammable solids void

Self-reactive substances and mixtures void

Pyrophoric liquids void

Pyrophoric solids void

Self-heating substances and mixtures void

Substances and mixtures, which emit flammable gases in contact with water void

Oxidising liquids void

Oxidising solids void

Organic peroxides void

Corrosive to metals void

Desensitised explosives void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability No further relevant information available.

10.3 Possibility of hazardous reactions No further relevant information available.

10.4 Conditions to avoid

Avoid formation of dust.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5 Incompatible materials: oxidizing agent

10.6 Hazardous decomposition products: No further relevant information available.

(Contd. on page 10)

Trade name: MxQuant-NPH ISTD

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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Inhalative	LC50/4 h	429 mg/l
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CAS: 79-09-4 Propionic acid -13C-NPH derivatized

Oral	LD50	2,600 mg/kg (rat)
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Dermal	LD50	3,235 mg/kg (rat)
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CAS: 69-72-7 Salicylic acid -13C-NPH derivatized

Oral	LD50	891 mg/kg (rat)
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CAS: 64-19-7 Acetic acid -13C-NPH derivatized

Oral	LD50	3,310 mg/kg (rat)
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Dermal	LD50	1,060 mg/kg (Rabbit)
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CAS: 109-52-4 Valeric acid -13C-NPH derivatized

Oral	LD50	600 mg/kg (mouse)
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Inhalative	LC50/4 h	0.6 mg/l (mouse)
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Primary irritant effect:

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties

CAS: 69-72-7	Salicylic acid -13C-NPH derivatized
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List II; III

Other information

To our knowledge, the chemical, physical and toxicological properties of the product have not been comprehensively investigated.

Unknown dangers cannot be ruled out.

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Trade name: MxQuant-NPH ISTD

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

CAS: 64-19-7 Acetic acid -13C-NPH derivatized

EC50 (48 h) > 300.82 mg/l (daphnia) (Daphnia magna)

EC50 (72 h) > 300.82 mg/l (algae) (Skeletonema costatum)

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: No data available.

vPvB: No data available.

12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

Additional ecological information:

General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Only dispose of product residues via authorised companies according to local legislation.

European waste catalogue

Notes: The European Waste Catalogue (EWC) classifies waste materials and categorises them according to what they are and how they were produced. This may cause other classifications. The final decision belongs to the last user.

16 03 05*	organic wastes containing hazardous substances
16 05 08*	discarded organic chemicals consisting of or containing hazardous substances
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP8	Corrosive

Uncleaned packaging:

Recommendation:

Dispose of packaging according to regulations on the disposal of packagings.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN, IMDG, IATA

UN1759

(Contd. on page 12)

Trade name: MxQuant-NPH ISTD

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14.2 UN proper shipping name
ADR/RID/ADN

1759 CORROSIVE SOLID, N.O.S. (N-(3-Dimethylaminopropyl)-N'-ethyl-carbodiimid)

IMDG, IATA

CORROSIVE SOLID, N.O.S. (N-(3-Dimethylaminopropyl)-N'-ethyl-carbodiimid)

14.3 Transport hazard class(es)

ADR/RID/ADN, IMDG, IATA



Class

8 Corrosive substances.

Label

8

14.4 Packing group

ADR/RID/ADN, IMDG, IATA

II

14.5 Environmental hazards:

Not applicable.

14.6 Special precautions for user

Warning: Corrosive substances.

Hazard identification number (Kemler code):

80

EMS Number:

F-A,S-B

Segregation groups

(SGG18) Alkalis

Stowage Category

A

14.7 Maritime transport in bulk according to IMO

instruments

Not applicable.

Transport/Additional information:

ADR/RID/ADN

Limited quantities (LQ)

1 kg

Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 500 g

Transport category

2

Tunnel restriction code

E

IMDG

Limited quantities (LQ)

1 kg

Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 500 g

UN "Model Regulation":

UN 1759 CORROSIVE SOLID, N.O.S. (N-(3-DIMETHYLAMINOPROPYL)-N'-ETHYL-CARBODIIMID), 8, II

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Trade name: MxQuant-NPH ISTD

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

CAS: 103-82-2	Phenylelessigsäure -13C-NPH derivatized	2B
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Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

CAS: 103-82-2	Phenylelessigsäure -13C-NPH derivatized	2
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National regulations:

Information about limitation of use: Employment restrictions concerning juveniles must be observed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

Relevant phrases

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H335 May cause respiratory irritation.
H361d Suspected of damaging the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

(Contd. on page 14)

Trade name: MxQuant-NPH ISTD

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Training hints

Before handling, storage or use for the first time, employees must be informed about the properties of the substance and about measures taken to ensure safety and environmental protection.

Regular training of staff involved in the transport of dangerous goods (in accordance with Chapter 1.3 ADR).

Classification according to Regulation (EC) No 1272/2008

Skin corrosion/irritation Serious eye damage/irritation Specific target organ toxicity (repeated exposure)	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
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Department issuing SDS:

UmEnA GmbH

<http://umena.at>

Email: office@umena.at

Date of previous version: 15.05.2025

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 2: Acute toxicity – Category 2

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3